ABSTRACT

A two-dimensional image formation apparatus according to the present invention is provided with laser sources $(1a) \sim (1c)$, diffusers $(6a) \sim (6c)$ for diffusing light, illumination optical systems for irradiating the diffusers $(6a) \sim (6c)$ with lights emitted from the laser sources $(1a) \sim (1c)$, diffuser vibration units $(13a) \sim (13c)$ for vibrating the diffusers $(6a) \sim (6c)$, and spatial light modulators $(7a) \sim (7c)$ disposed near the diffusers $(6a) \sim (6c)$, for modulating the lights emitted from the laser sources $(1a) \sim (1c)$ and diffused by the diffusers $(6a) \sim (6c)$, wherein the diffusers $(6a) \sim (6c)$ are vibrated by the diffuser vibration units $(13a) \sim (13c)$ at a velocity that satisfies a relationship, V > d×30 (millimeters/sec), which is established between the grain size d of the diffusers and the vibration speed V of the diffusers, whereby speckle noise existing in an image projected on a screen (11) can be effectively reduced.